

Amendments to the Claims:

This listing of claims will replace all prior version, and listings, of claims in the application:

Listing of Claims:

1-11. (Canceled).

12. (New) A fuel injector for a fuel-injection system of an internal combustion engine, comprising:

a restoring spring;

a valve closure member;

an energizable actuator;

a valve needle, which is in operative connection with the actuator and acted upon in a closing direction by the restoring spring to actuate the valve-closure member, which, together with a valve-seat surface formed on a valve-seat body, forms a sealing seat; and

at least one spray-discharge orifice, which is formed downstream from the sealing seat, wherein a guide region, which is formed in the valve-seat body and in which the valve-closure member is guided, tapers conically in a flow direction of fuel.

13. (New) The fuel injector of claim 12, wherein the guide region is formed on an inflow side of the sealing seat.

14. (New) The fuel injector of claim 12, wherein, as a result of the conicalness, an impact pressure prevails in the fuel that is present in the guide region.

15. (New) The fuel injector of claim 14, wherein the impact pressure in the guide region leads to a hydraulic self-centering of the valve-closure member in the guide region.

16. (New) The fuel injector of claim 12, wherein a cone-opening angle of the guide region is between 4° and 15°.

17. (New) The fuel injector of claim 12, wherein guide play existing between the valve-closure member and the valve-seat body amounts to approximately 4 µm in a closed state of the fuel injector.

18. (New) The fuel injector of claim 12, wherein guide play existing between the valve-closure member and the valve-seat body amounts to approximately 8 μm in an open state of the fuel injector.
19. (New) The fuel injector of claim 12, wherein the valve-closure member has a spherical design.
20. (New) The fuel injector of claim 12, wherein the valve-seat member is connected to the valve needle by welding or soldering.
21. (New) The fuel injector of claim 12, wherein the valve-closure member has beveled sections in the guide region.
22. (New) The fuel injector of claim 12, wherein both the guide region and the sealing seat are jointly drilled and ground with a shared axis of symmetry, in one clamping.